Website Payments Standard Button Manager API (SOAP)

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A usage Professional Uniquement
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Button Manager SOAP API

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Preface

This document describes the Button Manager API for SOAP.

Intended Audience

This document is intended for merchants and developers implementing Website Payment Standard buttons using an API.

Revision History

Revision history for *Website Payments Standard Button Manager API (SOAP)*.

TABLE P.1 Revision History

Date	Description
06/03/09	Added HTML Variable appendix and updated for version 57.0.
03/31/09	Initial draft.

1 Website Payments Standard Button Manager API Overview

The Website Payments Standard Button Manager API allows you to programatically create, manage, edit, and delete Website Payment Standard buttons, which are the same kind of buttons that you can create from the PayPal Profile. Hosted buttons created by this API reside on PayPal and can use all features, including inventory management; however, you can use this API to create code for non-hosted Website Payment Standard buttons as well.

- Button Manager Introduction
- Generated Button Code
- Button Hosting
- Hosted Button Manipulation
- Inventory Management Using Hosted Buttons
- Button Manager API Summary
- Granting Third-Party Permission for APIs

Button Manager Introduction

You should consider creating and managing your buttons with the Button Manager API when you are creating more than just a few Website Payment Standard buttons or when you manage buttons for others; for example, if you provide a shopping cart for merchants.

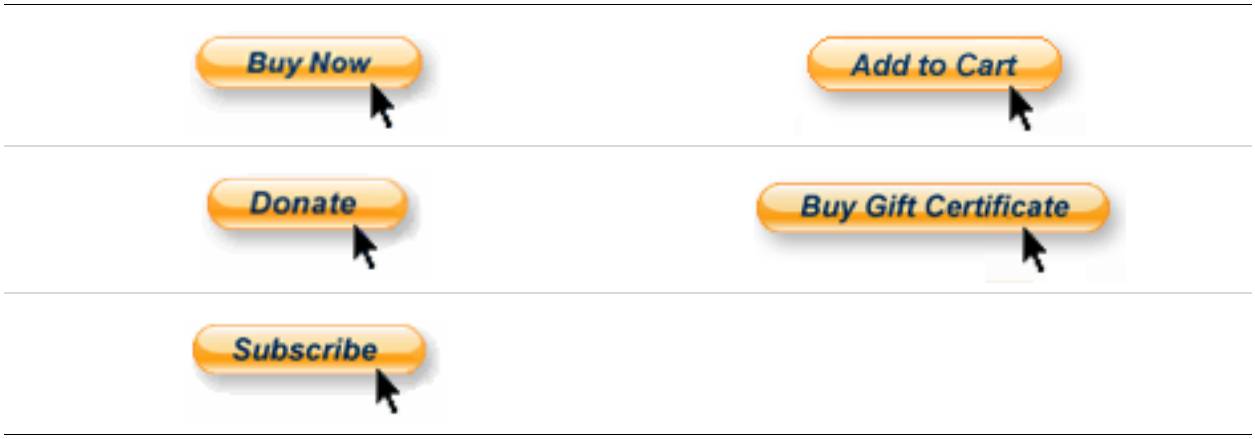
The Button Manager API enables you to manage Website Payment Standard buttons programatically in the same way that you can manage them on PayPal from the My Saved Buttons page of your Profile.

NOTE: You can access your My Saved Buttons page on PayPal by choosing **My Saved Buttons** from the Profile's Selling Preferences column. If no buttons have been created, the menu item is **Create New Button**.

You can use the API to create the following types of Website Payment Standard buttons:

- **Buy Now**
- **Add to Cart** and **View Cart**
- **Donate**
- **Buy Gift Certificate**
- **Subscribe** and **Unsubscribe**

The following buttons are some of those that you can create using the Button Manager API:



Generated Button Code

When you create a button, PayPal responds by providing code that you can paste into your web page or document.

PayPal generates code that you can use for the button, which includes

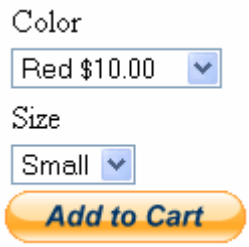
- HTML code for including the button in web pages
- URL link code for adding buttons to email and documents that support links

NOTE: Not all buttons that can be created are available to merchants in every country; for example, German merchants cannot use **Subscribe** buttons even though they can be created through the API. If you can create the button for the specified country using Create PayPal payment button on PayPal, your merchant will be able to use the button.

The following example shows the PayPal code to display a hosted **Add to Cart** button for a wireless mouse:

```
<form target="paypal" action="https://www.sandbox.paypal.com/cgi-
bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="hosted_button_id" value="19218">
<table>
<tr><td><input type="hidden" name="on0"
value="Color">Color</td></tr><tr><td><select name="os0">
  <option value="Red">Red $10.00
  <option value="Blue">Blue $8.00
  <option value="Green">Green $12.00
</select> </td></tr>
<tr><td><input type="hidden" name="on1"
value="Size">Size</td></tr><tr><td><select name="os1">
  <option value="Small">Small
  <option value="Large">Large
</select> </td></tr>
</table>
<input type="hidden" name="currency_code" value="USD">
<input type="image"
src="https://www.sandbox.paypal.com/en_US/i/btn/btn_cart_LG.gif" border="0"
name="submit" alt="">
<img alt="" border="0"
src="https://www.sandbox.paypal.com/en_US/i/scr/pixel.gif" width="1"
height="1">
</form>
```

When you display a web page with this code, this button appears:



PayPal-generated code for a link would be as follows:

```
https://www.sandbox.paypal.com/cgi-bin/webscr?cmd=_s-
xclick&hosted_button_id=19218
```

For a link, PayPal does not generate code for options.

Button Hosting

Buttons that you can view on the My Saved Buttons page of your PayPal profile are called *hosted* buttons because they reside on PayPal. The API can create three kinds of buttons: hosted, encrypted, and clear text.

- Hosted buttons are stored on PayPal. The parameters associated with this kind of button are secure.

  Hosted buttons provide the greatest flexibility because you can instruct PayPal to change them dynamically and PayPal maintains information about their state, such as the inventory level associated with the button.
- Encrypted buttons are not stored on PayPal. The parameters associated with this kind of button are encrypted.

  Encrypted buttons are similar to hosted buttons with regards to secure operation; however, you must update the web pages that use an encrypted button each time the button or its associated information changes. You should only use an encrypted button if a hosted button cannot be used.
- Clear text buttons are not stored on PayPal. The parameters associated with this kind of button are not encrypted.

  Clear text buttons are not hosted and are not encrypted. They can be used dynamically because you can change the value of a parameter "on the fly." However, if you use them, recognize the risk that sensitive information can be altered or stolen.

Hosted Button Manipulation

When you create a hosted button, the response includes an ID that allows you to manipulate the button using the Button Manager API.

Specifically, you can

- Get a list of all hosted buttons defined, which allows you to obtain a list of all your buttons for further programatic manipulation
- Get details about a hosted button, which allows you to identify the parameters and values associated with a button
- Update a hosted button, which allows you to change individual parameters, such as price, in a hosted button
- Manage hosted button status; currently, you can only delete a button
- Get and set inventory information associated with the button

Inventory Management Using Hosted Buttons

If you use hosted buttons, you can set inventory values for the item associated with the button and get inventory values for the item. You can also track inventory on options within an item, such as color, size, and so on.

If you enable inventory management for a button, PayPal tracks inventory for you and also lets your buyer know whether the item is sold out. You can specify inventory tracking on an item-by-item basis and also by option, such as color or size, within the item.

You are alerted by e-mail if the inventory on hand falls below the threshold you specify. If an item is sold out, you can specify whether or not to accept a payment anyway. Optionally, you can specify a URL to which your buyer's browser is redirected if the item is sold out.

Additionally, you can enable profit and loss tracking for an item or option associated with a button. If you enable this feature, you must provide the cost of the item or option. PayPal then calculates your gross profit, which is the selling price of the item less the specified cost.

Button Manager API Summary

The Button Manager API is available for both NVP and SOAP.

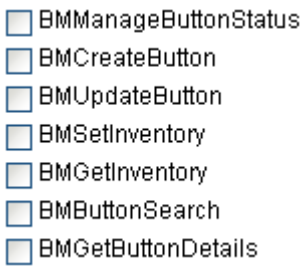
API Operation	Description
`BMCreateButton`	Create button code
`BMUpdateButton`	Update a hosted button
`BMManageButtonStatus`	Delete a button
`BMGetButtonDetails`	Obtain information about the parameters associated with a button
`BMButtonSearch`	Obtain a list of all buttons
`BMGetInventory`	Obtain the inventory levels associated with a button
`BMSetInventory`	Specify the inventory levels associated with a button

Granting Third-Party Permission for APIs

If you allow a shopping cart or another party to create buttons on your behalf, you must grant the party permission to execute Button Manager API operations for you.

To grant third-party permissions

1. Log in to your PayPal account.
2. Select My Account Profile.
3. Click "API Access" from the Profile Summary.
4. Click "Grant API Permission."
5. Click to "Configure a custom API authorization."
6. Enter your Partner API Username, as specified by your shopping cart or third party.
7. Click to check each Button Manager API to which you want to provide access:



8. Click **Submit**.

2 Using the Button Manager API

These examples show basic Button Manager API capabilities. The examples show how to create buttons and set inventory levels.

- Specifying HTML Variables
- Creating a Button Using SOAP
- Tracking Inventory for a Button Using SOAP

Specifying HTML Variables

When you create or update a button using the Button Manager API, you must specify the same HTML variables that you specify when creating any Website Payments Standard button. Although you can use the `ButtonVar` field to specify any HTML variables, some variables are commonly used in specific ways.

The following table provides additional information about some of these variables:

HTML Variable	Notes
`item_name`	Name or description of item. Must be specified for **Add to Cart** buttons. Character length and limitations: 127 single-byte alphanumeric characters.
`amount`	The price or amount of the item. Required for **Add to Cart** buttons. May not be used when a dropdown with price (`L_OPTION0PRICE`*n*) is defined. Limitations: Value must be a positive number. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).
`a3`	Price of subscription. Must be specified for **Subscribe** buttons. Value must be a positive number. No currency symbol. Must have two decimal places, decimal separator must be a period (.), and the optional thousands separator must be a comma (,).
`p3`	Regular billing cycle. Must be specified for **Subscribe** buttons. Limitations: Must be a positive integer greater than 0 and less than or equal to 30
`t3`	Regular billing cycle units. Must be specified for **Subscribe** buttons.
`shopping_url`	URL where recipients can shop and redeem gift certificates. Required for **Gift Certificate** buttons. Character length and limitations: 255 single-byte alphanumeric characters

HTML Variable	Notes
`no_note`	Must be specified for **Subscribe** buttons. Enables a subscriber to not be prompted to include a note with the subscription, a function which PayPal subscriptions does not support. This variable must be included, and the value must be set to 1.
`business`	Secure Merchant ID or Email Address. When omitted, defaults to the secure merchant ID of the merchant. If an email address is specified then it the following requirements apply: • A merchant or 3rd Party calling the API directly may specify an unregistered email and create an unencrypted button only. • A 3rd Party calling the API on behalf of a registered merchant must specify an email address associated with the merchant account. Character length and limitations: 127 single-byte characters.
`item_number`	Item number or ID. Character length and limitations: 127 single-byte alphanumeric characters.
`lc`	If specified, it overrides the value set in the `ButtonCode` field.

For a complete list of HTML variables and complete information, see HTML Variables for Website Payments Standard.

Creating a Button Using SOAP

The example sets up a SOAP request message to create a button.

```
<com.paypal.soap.api.BMCreateButtonRequestType>
 <buttonType>
 <__value__>
   <m__value>CART</m__value>
 </__value__>
 </buttonType>
 <buttonCode>
 <__value__>
   <m__value>HOSTED</m__value>
 </__value__>
 </buttonCode>
 <buttonSubType>
 <__value__>
   <m__value>PRODUCTS</m__value>
 </__value__>
 </buttonSubType>
 <buttonVar>
 <string>business=XX-usbiz@paypal.com</string>
 <string>item_name=Item-123</string>
 <string>item_number=#1234</string>
 <string>shipping=0.50</string>
 <string>tax_rate=2.50</string>
 <string>address1=</string>
 <string>state=</string>
 <string>city=</string>
 <string>zip=</string>
 <string>no_shipping=0</string>
 <string>address_override=0</string>
 </buttonVar>

 <optionDetails>
  <com.paypal.soap.api.OptionDetailsType>
   <optionName>DD1</optionName>
   <optionSelectionDetails>
   <com.paypal.soap.api.OptionSelectionDetailsType>
     <optionSelection>AAAA</optionSelection>
     <price>1.55</price>
   </com.paypal.soap.api.OptionSelectionDetailsType>
   <com.paypal.soap.api.OptionSelectionDetailsType>
     <optionSelection>BBBB</optionSelection>
   <price>10.55</price>
   </com.paypal.soap.api.OptionSelectionDetailsType>
   <com.paypal.soap.api.OptionSelectionDetailsType>
     <optionSelection>CCCCC</optionSelection>
   <price>10.55</price>
   </com.paypal.soap.api.OptionSelectionDetailsType>
   </optionSelectionDetails>
 </com.paypal.soap.api.OptionDetailsType>

  <com.paypal.soap.api.OptionDetailsType>
```

```
    <optionName>DD2</optionName>
    <optionSelectionDetails>
    <com.paypal.soap.api.OptionSelectionDetailsType>
      <optionSelection>XXXX</optionSelection>
    </com.paypal.soap.api.OptionSelectionDetailsType>
    <com.paypal.soap.api.OptionSelectionDetailsType>
      <optionSelection>ZZZZ</optionSelection>
    </com.paypal.soap.api.OptionSelectionDetailsType>
    </optionSelectionDetails>
  </com.paypal.soap.api.OptionDetailsType>
  </optionDetails>


  <buttonImage>
  <__value__>
    <m__value>REG</m__value>
  </__value__>
  </buttonImage>
  <buttonImageURL></buttonImageURL>

  <buyNowText>
  <__value__>
    <m__value>BUYNOW</m__value>
  </__value__>
  </buyNowText>
   <subscribeText>
  <__value__>
    <m__value>SUBSCRIBE</m__value>
  </__value__>
  </subscribeText>
 <buttonCountry>
  <__value__>
    <m__value>US</m__value>
  </__value__>
  </buttonCountry>
   <buttonLanguage></buttonLanguage>

 </com.paypal.soap.api.BMCreateButtonRequestType>
```

Tracking Inventory for a Button Using SOAP

The example shows the SOAP parameters that enable tracking of inventory and profit and loss for a button.

```
<com.paypal.soap.api.BMSetInventoryRequestType>
  <hostedButtonID>41</hostedButtonID>
  <trackInv>1</trackInv>
  <trackPnl>1</trackPnl>
  <itemTrackingDetails>
    <itemNumber>234234</itemNumber>
    <itemQty>10</itemQty>
    <itemAlert>2</itemAlert>
    <itemCost>4</itemCost>
  </itemTrackingDetails>
  <soldoutURL>http://www.paypal.com</soldoutURL>
</com.paypal.soap.api.BMSetInventoryRequestType>
```

3 Button Manager API Reference

The Button Manager API enables you to programatically create, edit, and delete Website Payment Standard buttons hosted on PayPal and track product inventory associated with these buttons. You can also create non-hosted buttons with the Button Manager API; however, button maintenance and inventory management are only supported for hosted buttons.

- BMCreateButton API Operation
- BMUpdateButton API Operation
- BMButtonSearch API Operation
- BMCreateButton API Operation
- BMManageButtonStatus API Operation
- BMSetInventory API Operation
- BMGetInventory API Operation

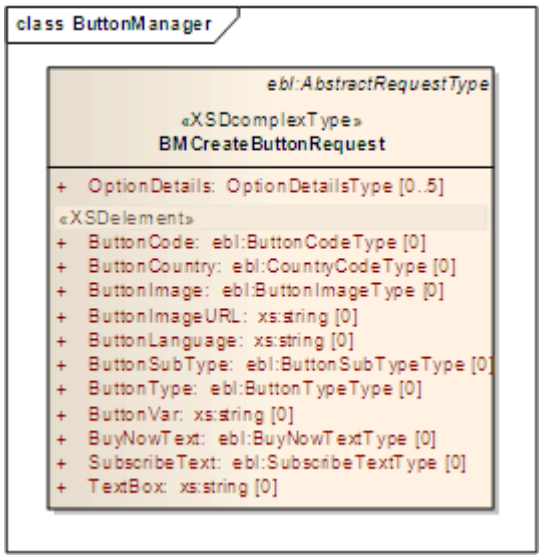
BMCreateButton API Operation

Use the `BMCreateButton` API operation to create a Website Payments Standard button. You an create either a button that is hosted on PayPal or a non-hosted button.

- BMCreateButton Request
- BMCreateButton Response
- BMCreateButton Errors

BMCreateButton Request

The request fields specify the characteristics of your button, which include associated menu items related to the button. You can specify up five menu items, each of which can include up to 10 possible selections.



BMCreateButton Request Fields

Field	Description
`ButtonCode`	`ebl:ButtonCodeType` *(Optional)* The kind of button code to create. It is one of the following values: • `HOSTED` - A secure button stored on PayPal; default for all buttons except **View Cart** and **Unsubscribe** • `ENCRYPTED` - An encrypted button, not stored on PayPal; default for **View Cart** button • `CLEARTEXT` - An unencrypted button, not stored on PayPal; default for **Unsubscribe** button
`ButtonType`	`ebl:ButtonTypeType` *(Required)* The kind of button you want to create. It is one of the following values: • `BUYNOW` - **Buy Now** button • `CART` - **Add to Cart** button • `GIFTCERTIFICATE` - **Gift Certificate** button • `SUBSCRIBE` - **Subscribe** button • `DONATE` - **Donate** button • `UNSUBSCRIBE` - **Unsubscribe** button • `VIEWCART` - **View Cart** button
`ButtonSubType`	`ebl:ButtonSubTypeType` *(Optional)* The use of button you want to create. It is one of the following values: • `PRODUCTS` - button is used to purchase products; default for **Buy Now** and **Add to Cart** buttons • `SERVICES` - button is used to purchase services

Field	Description
`ButtonVar`	`xs:string` *(Optional)* HTML standard button variables, which are described in HTML Variables for Website Payments Standard It is a list of variables, in which *n* is a digit between 0 and 999, inclusive; do not include leading zeros. Character length and limitations: 63 single-byte alphanumeric characters each
`OptionDetails`	`ns:OptionDetailsType` *(Optional)* Menu items
`TextBox`	`xs:string` *(Optional)* Text description for a menu item It is a list of variables, in which *n* is a digit between 0 and 1, inclusive.
`ButtonImage`	`ebl:ButtonImageType` *(Optional)* The kind of button image. It is one of the following values: • `REG` - regular; default unless a button URL is specified • `SML` - small • `CC` - small button image with credit card logos; not applicable for Unsubscribe or **View Cart** buttons **NOTE:** Specify either the kind of button image or the URL.
`ButtonImageURL`	`xs:string` *(Optional)* The button's URL **NOTE:** Specify either the kind of button image or the URL.
`BuyNowText`	`ebl:BuyNowTextType` *(Optional)* The button text for a Buy Now button. It is one of the following values: • `BUYNOW` - button text is **Buy Now**; default • `PAYNOW` - button text is **Pay Now**
`SubscribeText`	`ebl:SubscribeTextType` *(Optional)* The button text for a Subscribe button. It is one of the following values: • `BUYNOW` - button text is **Buy Now** • `SUBSCRIBE` - button text is **Subscribe**; default
`ButtonCountry`	`ebl:CountryCodeType` *(Optional)* The country in which the transaction occurs. See Country Codes. for a list of country codes. By default, it is the merchant's country of registration with PayPal.
`ButtonLanguage`	`xs:string` *(Optional)* The language in which to display the button text. It must be compatible with the country code. Character length and limitations: 2 single-byte alphanumeric characters

Option Details Fields

Field	Description
`OptionName`	`xs:string` *(Optional)* The menu name
`OptionSelectionDetails`	`ns:OptionSelectionDetailsType` Menu items

OptionSelectionDetails

`OptionSelection`	`xs:string` *(Optional)* The menu item's name
`Price`	`xs:string` *(Optional)* The price associated with the first menu item **NOTE:** If you specify a price, you cannot set a button variable to `amount`.

Button Language Options

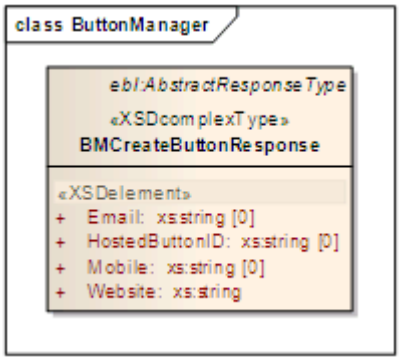
The button language must be compatible with the country identified by the country code.

Country	Button Language Options
All countries not identified below	• `en` - English; default
Austria	• `de` - German; default • `en` - English
Belgium	• `en` - English; default • `nl` - Dutch • `fr` - French
Canada	• `en` - English; default • `fr` - French
China (worldwide)	• `en` - English; default • `zh` - Chinese
France	• `fr` - French; default • `en` - English
Germany	• `de` - German; default • `en` - English
Hong Kong	• `zh` - Chinese; default • `en` - English
Italy	• `it` - Italian; default • `en` - English

Country	Button Language Options
Japan	• `ja` - Japanese; default • `en` - English
Mexico	• `es` - Spanish; default • `en` - English
Netherlands	• `nl` - Dutch; default • `en` - English
Poland	• `pl` - Polish; default • `en` - English
Spain	• `es` - Spanish; default • `en` - English
Switzerland	• `de` - German; default • `fr` - French • `en` - English
United States	• `en` - English; default • `fr` - French • `es` - Spanish • `zh` - Chinese

BMCreateButton Response

The response contains an ID if the button is hosted on PayPal, and code for HTML in a website and for a link in email.



BMCreateButton Response Fields

Field	Description
`Website`	`xs:string` HTML code for web pages

Field	Description
`Email`	`xs:string` Code for email links and links in other documents that support external links
`HostedButtonID`	`xs:string` ID of a PayPal-hosted button

BMCreateButton Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11923	Invalid Argument	The button image value specified is invalid.	
11924	Invalid Argument	The button image URL specified is invalid.	
11925	Invalid Argument	The button type specified is invalid.	
11926	Invalid Data	One of the parameters specified using ButtonVar is invalid.	
11927	Invalid Argument	The buy now button text specified is invalid.	
11928	Invalid Argument	The email or merchant ID specified is invalid.	
11929	Invalid Data	A cart button must have an item name and amount specified.	
11930	Invalid Data	A gift certificate button must have a valid shopping URL specified.	
11931	Invalid Argument	The subscription button text specified is invalid.	
11932	Invalid Data	You must specify a corresponding number of entries for option names and selections.	
11933	Invalid Data	You cannot skip index numbers for option selections. Option selections must be specified sequentially.	
11934	Invalid Data	You must specify the same number of entries for option prices and selections.	
11936	Invalid Data	You cannot specify both an item price and prices for individual selections within an option.	

Error Code	Short Message	Long Message	Correcting This Error...
11937	Invalid Argument	A text box name specified is invalid. Text box names must not exceed 64 characters.	
11938	Invalid Argument	The button code value specified is invalid.	
11940	Invalid Argument	An option name specified is invalid. Option names must not exceed 64 characters.	
11941	Invalid Argument	An option selection value specified is invalid. Option selection values must not exceed 64 characters.	
11942	Invalid Argument	An option price value specified is invalid. Make sure any punctuation marks are in the correct places.	
11943	Invalid Argument	The button country value specified is invalid.	
11945	Invalid Data	The button country and language code combination specified is invalid.	
11947	Invalid Argument	The tax rate specified is invalid. Make sure any punctuation marks are in the correct places and value specified is in the range 0.0 to 100.	
11948	Invalid Argument	The amount specified is invalid. Make sure any punctuation marks are in the correct places.	

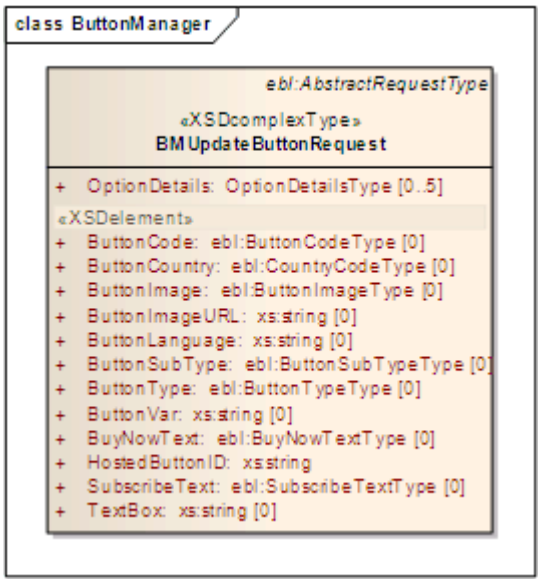
BMUpdateButton API Operation

Use the `BMUpdateButton` API operation to modify a Website Payments Standard button that is hosted on PayPal. This operation replaces all fields in the specified button; therefore, you must specify a value fore each field you want to include for the button, whether or not it changed.

- BMUpdateButton Request
- BMUpdateButton Response
- BMUpdateButton Errors

BMUpdateButton Request

The hosted button ID identifies the button you want to modify. The remaining request fields specify the characteristics of your button.



BMUpdateButton Request Fields

Field	Description
`HostedButtonID`	`xs:string` *(Required)* The ID of the hosted button you want to modify.
`ButtonType`	`ebl:ButtonTypeType` *(Required)* The kind of button you want to update. It is one of the following values: • `BUYNOW` - **Buy Now** button • `CART` - **Add to Cart** button • `GIFTCERTIFICATE` - **Gift Certificate** button • `SUBSCRIBE` - **Subscribe** button • `DONATE` - **Donate** button • `UNSUBSCRIBE` - **Unsubscribe** button • `VIEWCART` - **View Cart** button **NOTE:** You cannot change the kind of button after the button has been created.
`ButtonCode`	`ebl:ButtonCodeType` *(Optional)* The kind of button code to create. It is one of the following values: • `HOSTED` - A secure button stored on PayPal; default for all buttons except **View Cart** and **Unsubscribe** • `ENCRYPTED` - An encrypted button, not stored on PayPal; default for **View Cart** button • `CLEARTEXT` - An unencrypted button, not stored on PayPal; default for **Unsubscribe** button **NOTE:** You cannot change the kind of button code after after the button has been created.

Field	Description
ButtonSubType	ebl:ButtonSubTypeType *(Optional)* The use of button you want to create. It is one of the following values: • PRODUCTS - button is used to purchase products; default for **Buy Now** and **Add to Cart** buttons • SERVICES - button is used to purchase services **NOTE:** You cannot change the button usage after after the button has been created.
ButtonVar	xs:string *(Optional)* HTML standard button variables, which are described in HTML Variables for Website Payments Standard It is a list of variables, in which *n* is a digit between 0 and 999, inclusive; do not include leading zeros. Character length and limitations: 63 single-byte alphanumeric characters each
OptionDetails	ns:OptionDetailsType *(Optional)* Menu items
TextBox	xs:string *(Optional)* Text description for a menu item It is a list of variables, in which *n* is a digit between 0 and 1, inclusive.
ButtonImage	ebl:ButtonImageType *(Optional)* The kind of button image. It is one of the following values: • REG - regular; default • SML - small • CC - small button image with credit card logos; not applicable for Unsubscribe or **View Cart** buttons **NOTE:** Specify either the kind of button image or the URL.
ButtonImageURL	xs:string *(Optional)* The button's URL **NOTE:** Specify either the kind of button image or the URL.
BuyNowText	ebl:BuyNowTextType *(Optional)* The button text for a Buy Now button. It is one of the following values: • BUYNOW - button text is **Buy Now**; default • PAYNOW - button text is **Pay Now**
SubscribeText	ebl:SubscribeTextType *(Optional)* The button text for a Subscribe button. It is one of the following values: • BUYNOW - button text is **Buy Now** • SUBSCRIBE - button text is **Subscribe**; default

Field	Description
`ButtonCountry`	`ebl:CountryCodeType` *(Optional)* The country in which the transaction occurs. See Country Codes. for a list of country codes. By default, it is the merchant's country of registration with PayPal.
`ButtonLanguage`	`xs:string` *(Optional)* The language in which to display the button text. It must be compatible with the country code. Character length and limitations: 2 single-byte alphanumeric characters

Option Details Fields

Field	Description
`OptionName`	`xs:string` *(Optional)* The menu name
`OptionSelectionDetails`	`ns:OptionSelectionDetailsType` Menu items

OptionSelectionDetails

`OptionSelection`	`xs:string` *(Optional)* The menu item's name
`Price`	`xs:string` *(Optional)* The price associated with the first menu item **NOTE:** If you specify a price, you cannot set a button variable to `amount`.

Button Language Options

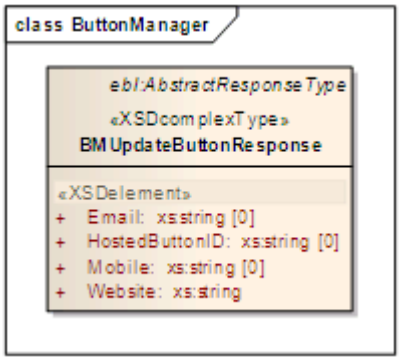
The button language must be compatible with the country identified by the country code.

Country	Button Language Options
All countries not identified below	• `en` - English; default
Austria	• `de` - German; default • `en` - English
Belgium	• `en` - English; default • `nl` - Dutch • `fr` - French
Canada	• `en` - English; default • `fr` - French
China (worldwide)	• `en` - English; default • `zh` - Chinese

Country	Button Language Options
France	• `fr` - French; default • `en` - English
Germany	• `de` - German; default • `en` - English
Hong Kong	• `zh` - Chinese; default • `en` - English
Italy	• `it` - Italian; default • `en` - English
Japan	• `ja` - Japanese; default • `en` - English
Mexico	• `es` - Spanish; default • `en` - English
Netherlands	• `nl` - Dutch; default • `en` - English
Poland	• `pl` - Polish; default • `en` - English
Spain	• `es` - Spanish; default • `en` - English
Switzerland	• `de` - German; default • `fr` - French • `en` - English
United States	• `en` - English; default • `fr` - French • `es` - Spanish • `zh` - Chinese

BMUpdateButton Response

The response contains the hosted button ID, code for HTML in a website, and code for a link in email.



BMUpdateButton Response Fields

Field	Description
`Website`	`xs:string` HTML code for web pages
`Email`	`xs:string` Code for email links and links in other documents that support external links
`HostedButtonID`	`xs:string` ID of a PayPal hosted button

BMUpdateButton Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11923	Invalid Argument	The button image value specified is invalid.	
11924	Invalid Argument	The button image URL specified is invalid.	
11925	Invalid Argument	The button type specified is invalid.	
11926	Invalid Data	One of the parameters specified using ButtonVar is invalid.	
11927	Invalid Argument	The buy now button text specified is invalid.	
11928	Invalid Argument	The email or merchant ID specified is invalid.	
11929	Invalid Data	A cart button must have an item name and amount specified.	

Error Code	Short Message	Long Message	Correcting This Error...
11930	Invalid Data	A gift certificate button must have a valid shopping URL specified.	
11931	Invalid Argument	The subscription button text specified is invalid.	
11932	Invalid Data	You must specify a corresponding number of entries for option names and selections.	
11933	Invalid Data	You cannot skip index numbers for option selections. Option selections must be specified sequentially.	
11934	Invalid Data	You must specify the same number of entries for option prices and selections.	
11936	Invalid Data	You cannot specify both an item price and prices for individual selections within an option.	
11937	Invalid Argument	A text box name specified is invalid. Text box names must not exceed 64 characters.	
11938	Invalid Argument	The button code value specified is invalid.	
11940	Invalid Argument	An option name specified is invalid. Option names must not exceed 64 characters.	
11941	Invalid Argument	An option selection value specified is invalid. Option selection values must not exceed 64 characters.	
11942	Invalid Argument	An option price value specified is invalid. Make sure any punctuation marks are in the correct places.	
11943	Invalid Argument	The button country value specified is invalid.	
11945	Invalid Data	The button country and language code combination specified is invalid.	
11947	Invalid Argument	The tax rate specified is invalid. Make sure any punctuation marks are in the correct places and value specified is in the range 0.0 to 100.	
11948	Invalid Argument	The amount specified is invalid. Make sure any punctuation marks are in the correct places.	

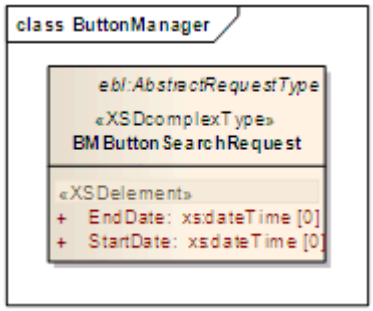
BMButtonSearch API Operation

Use the `BMButtonSearch` API operation to obtain a list of your hosted Website Payments Standard buttons.

- BMButtonSearch Request
- BMButtonSearch Response
- BMButtonSearch Errors

BMButtonSearch Request

The request contains optional fields that are not currently used. All hosted buttons are automatically requested.

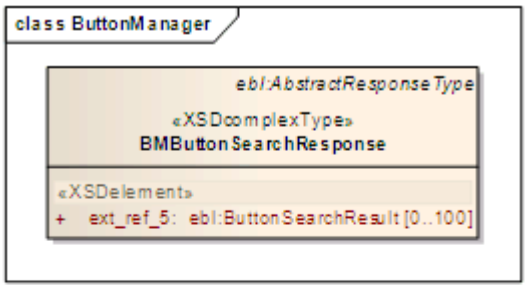


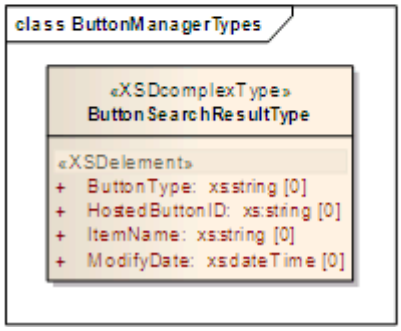
BMButtonSearch Request Fields

Field	Description
`StartDate`	`xs:dateTime` *(Required)* Starting date for the search, such as `12/01/09`
`EndDate`	`xs:dateTime` *(Optional)* Ending date for the search, such as `12/31/09`

BMButtonSearch Response

The response contains a list of all hosted buttons and their associated characteristics.





BMButtonSearch Response Fields

Name	Description
—	`ebl:ButtonSearchResult` Search results

ButtonSearchResult

`HostedButtonID`	`xs:string` The hosted button ID
`HButtonType`	`xs:string` The hosted button ID
`ItemName`	`xs:string` The item name
`ModifyDate`	`xs:dateTime` The date created or last changed

BMButtonSearch Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	

Error Code	Short Message	Long Message	Correcting This Error...
11994	Search Warning	You have exceeded the maximum number of buttons that can be returned. Please adjust your seach parameters if required.	
11997	Invalid Argument	A start date value must be specified.	
11998	Invalid Argument	The start date specified is invalid.	
11999	Invalid Argument	The end date specified is invalid.	

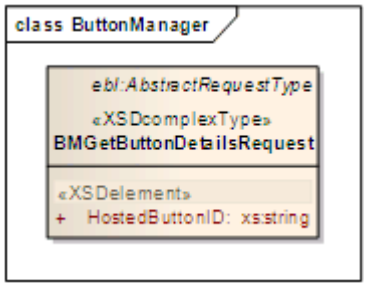
BMGetButtonDetails API Operation

Use the `BMGetButtonDetails` API operation to obtain information about a hosted Website Payments Standard button. You can use this information to set the fields that have not changed when updating a button.

- BMGetButtonDetails Request
- BMGetButtonDetails Response
- BMUpdateButton Errors

BMGetButtonDetails Request

The request consists of only the ID of the hosted button whose details you want to obtain.

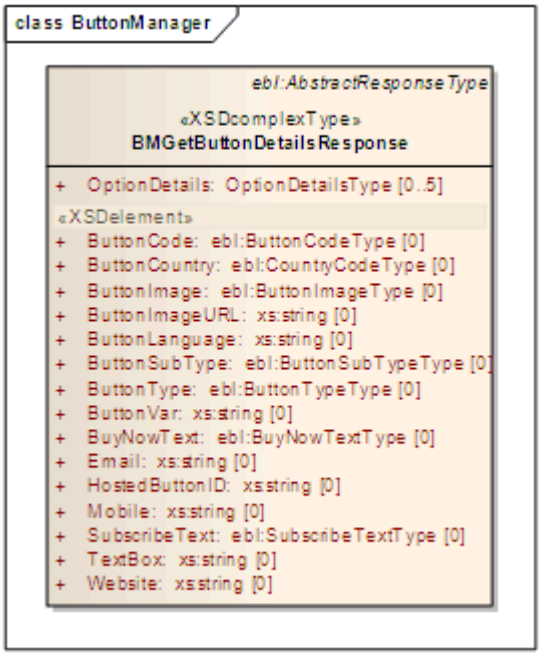


BMGetButtonDetails Request Fields

Field	Description
`HostedButtonID`	`xs:string` *(Required)* The ID of the hosted button whose details you want to obtain.

BMGetButtonDetails Response

The response fields contain all non-inventory information related to the button.



BMGetButtonDetails Response Fields

Field	Description
`ButtonType`	`ebl:ButtonTypeType` The kind of button. It is one of the following values: • `BUYNOW` - **Buy Now** button • `CART` - **Add to Cart** button • `GIFTCERTIFICATE` - **Gift Certificate** button • `SUBSCRIBE` - **Subscribe** button • `DONATE` - **Donate** button • `UNSUBSCRIBE` - **Unsubscribe** button • `VIEWCART` - **View Cart** button
`ButtonCode`	`ebl:ButtonCodeType` The kind of button code. It is one of the following values: • `HOSTED` - A secure button stored on PayPal • `ENCRYPTED` - An encrypted button, not stored on PayPal • `CLEARTEXT` - An unencrypted button, not stored on PayPal
`ButtonSubType`	`ebl:ButtonSubTypeType` The use of button. It is one of the following values: • `PRODUCTS` - button is used to purchase products • `SERVICES` - button is used to purchase services
`HostedButtonID`	`xs:string` ID of a PayPal hosted button

Field	Description
`Website`	`xs:string` HTML code for web pages
`Email`	`xs:string` Code for email links and links in other documents that support external links
`ButtonVar`	`xs:string` HTML standard button variables, which are described in HTML Variables for Website Payments Standard It is a list of variables, in which *n* is a digit between 0 and 9, inclusive. Character length and limitations: 63 single-byte alphanumeric characters each
`OptionDetails`	`ns:OptionDetailsType` Menu items
`TextBox`	`xs:string` Text description for a menu item It is a list of variables, in which *n* is a digit between 0 and 2, inclusive.
`ButtonImage`	`ebl:ButtonImageType` The kind of button image. It is one of the following values: • `REG` - regular • `SML` - small • `CC` - credit card logos
`ButtonImageURL`	`xs:string` The button's URL
`BuyNowText`	`ebl:BuyNowTextType` The button text for a Buy Now button. It is one of the following values: • `BUYNOW` - button text is **Buy Now** • `PAYNOW` - button text is **Pay Now**
`SubscribeText`	`ebl:SubscribeTextType` The button text for a Subscribe button. It is one of the following values: • `BUYNOW` - button text is **Buy Now** • `SUBSCRIBE` - button text is **Subscribe**
`ButtonCountry`	`ebl:CountryCodeType` The country in which the transaction occurs. See Country Codes. for a list of country codes. By default, it is the merchant's country of registration with PayPal.
`ButtonLanguage`	`xs:string` The languange in which to display the button text Character length and limitations: 2 single-byte alphanumeric characters

Option Details Fields

Field	Description
`OptionName`	`xs:string` *(Optional)* The menu name
`OptionSelectionDetails`	`ns:OptionSelectionDetailsType` Menu items

OptionSelectionDetails

`OptionSelection`	`xs:string` *(Optional)* The menu item's name
`Price`	`xs:string` *(Optional)* The price associated with the first menu item **NOTE:** If you specify a price, you cannot set a button variable to `amount`.

BMGetButtonDetails Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

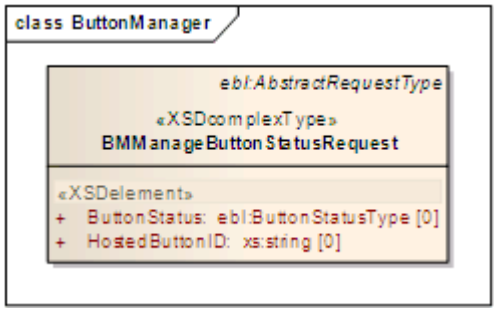
BMManageButtonStatus API Operation

Use the `BMManageButtonStatus` API operation to change the status of a hosted button. Currently, you can only delete a button.

- BMManageButtonStatus Request
- BMManageButtonStatus Response
- BMUpdateButton Errors

BMManageButtonStatus Request

The request specifies the hosted button's ID and the status to which you want to set the button.



BMManageButtonStatus Request Fields

Field	Description
`HostedButtonID`	`xs:string` *(Required)* The ID of the hosted button whose status you want to change.
`ButtonStatus`	`ebl:ButtonStatusType` *(Required)* The new status of the button. It is one of the following values: • `DELETE` - the button is deleted from PayPal

BMManageButtonStatus Response

The response does not include any fields that are specific to the `BMManageButtonStatus` API operation.

BMManageButtonStatus Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

Error Code	Short Message	Long Message	Correcting This Error...
11993	Invalid Argument	The button status value specified is not valid.	

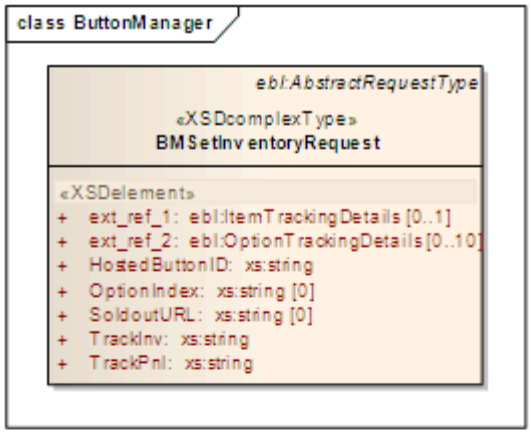
BMSetInventory API Operation

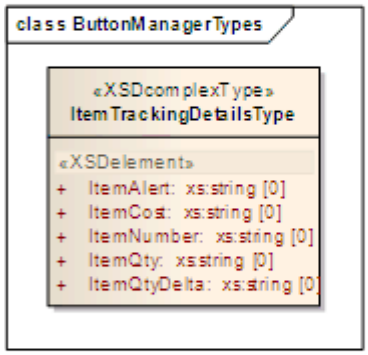
Use the `BMSetInventory` API operation to set the inventory level and inventory management features for the specified button. When you set the inventory level for a button, PayPal can track inventory, calculate the gross profit associated with sales, send you an alert when inventory drops below a specified quantity, and manage sold out conditions.

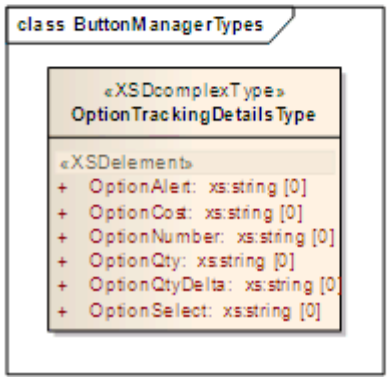
- BMSetInventory Request
- BMSetInventory Response
- BMSetInventory Errors

BMSetInventory Request

The request specifies inventory values related to a hosted button as well as inventory values that are specific to each menu item associated with the button.







BMSetInventory Request Fields

Field	Description
`HostedButtonID`	`xs:string` *(Required)* The ID of the hosted button whose inventory you want to set.

Field	Description
`TrackInv`	`xs:string` *(Required)* Whether to track inventory levels associated with the button. It is one of the following values: • `0` - do not track inventory • `1` - track inventory
`TrackPnl`	`xs:string` *(Required)* Whether to track the gross profit associated with inventory changes. It is one of the following values: • `0` - do not track the gross profit • `1` - track the gross profit **NOTE:** The gross profit is calculated as the price of the item less its cost, multiplied by the change in the inventory level since the last call to `BMSetInventory`.
—	`ebl:ItemTrackingDetails` *(Optional)* Item tracking details for the button
`OptionIndex`	`xs:string` *(Optional)* Option index, which identifies the button. Option index 0 is the menu that contains the price if one exists; otherwise, it is the first menu without a price. Character length and limitations: 1 single-byte alphanumeric character
—	`ebl:OptionTrackingDetails` *(Optional)* Option tracking details for menu items associated with the button
`SoldoutURL`	`xs:string` *(Optional)* The URL to which the buyer's browser is redirected when the inventory drops to 0 **NOTE:** Specifying a URL in this field also prevents a sale when the inventory drops to 0; otherwise, sales can continue even when inventory is unavailable. Character length and limitations: 127 single-byte alphanumeric characters

Item Tracking Details Fields

`ItemNumber`	`xs:string` *(Optional)* The ID for an item associated with this button
`ItemQty`	`xs:string` The quantity you want to specify for the item associated with this button. Specify either the absolute quantity in this field or the change in quantity in the quantity delta field

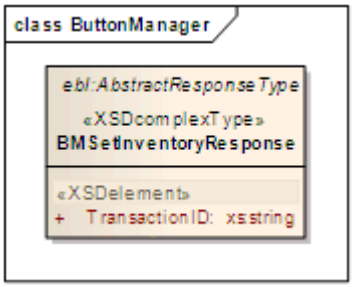
`ItemQtyDelta`	`xs:string` The change in quantity you want to specify for the item associated with this button. Specify either the change in quantity in this field or the absolute quantity in the item quantity field
`ItemAlert`	`xs:string` *(Optional)* The quantity of the item associated with this button below which PayPal sends you an email notification
`ItemCost`	`xs:string` *(Optional)* The cost of the item associated with this button

Option Tracking Details Fields

`OptionNumber`	`xs:string` *(Optional)* The menu item's ID for an option in a dropdown menu
`OptionQty`	`xs:string` The quantity you want to specify for the option associated with this menu item. Specify either the absolute quantity in this field or the change in quantity in the quantity delta field
`OptionSelect`	`xs:string` *(Optional)* The menu item's name in a dropdown menu
`OptionQtyDelta`	`xs:string` The change in quantity you want to specify for the option associated with this menu item. Specify either the change in quantity in this field or the absolute quantity in the quantity field
`OptionAlert`	`xs:string` *(Optional)* The quantity of the option associated with this menu item below which PayPal sends you an email notification
`OptionCost`	`xs:string` *(Optional)* The cost of the option associated with this menu item Limitations: Value must be a positive number, with no currency symbol. It must have two decimal places and the decimal separator must be a period (.). It may have an optional comma (,) for the thousands separator.

BMSetInventory Response

The response consists of a transaction ID.



BMSetInventory Response Fields

Field	Description
`TransactionID`	`xs:string` Transaction ID

BMSetInventory Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11953	Invalid Data	You can only track inventory and profit & loss for buy now, cart or subscription buttons.	
11954	Invalid Data	A TrackInv value must be specified.	
11955	Invalid Data	A TrackPnl value must be specified.	
11956	Invalid Argument	The TrackInv value specified is invalid.	
11957	Invalid Argument	The TrackPnl value specified is invalid.	
11958	Invalid Data	You cannot specify both an ItemQty and ItemQtyDelta value.	
11959	Invalid Data	You cannot specify both an OptionQty and OptionQtyDelta value.	
11960	Invalid Data	You cannot specify item level or option level inventory when TrackInv is 0.	
11961	Invalid Data	You must either track inventory by item or by option when TrackInv is 1. It cannot be tracked by both together or none at all.	

Error Code	Short Message	Long Message	Correcting This Error...
11964	Invalid Data	You must either track inventory and/or track profit & loss.	
11965	Invalid Data	You cannot track inventory by item and cost by option at the same time or vice versa.	
11966	Invalid Argument	Item number specified is invalid. It must be a string less than 127 characters.	
11967	Invalid Data	You cannot set inventory for more option selections than the number of option selections saved in the button.	
11968	Invalid Data	Option numbers must be unique within an individual button.	
11969	Invalid Data	An option name index value must be specified when tracking inventory or profit & loss by option.	
11970	Invalid Argument	Option name index value specified is invalid.	
11971	Invalid Data	Inventory and/or profit & loss must be managed by item or an option with price when one is defined.	
11972	Invalid Data	Option name index value specified does not exist.	
11973	Invalid Data	ItemQty and/or ItemQtyDelta must be an integer.	
11974	Invalid Data	An item quantity or item quantity delta value cannot be specified when TrackInv is 0.	
11975	Invalid Data	The number of option quantity or option quantity delta values specified is greater than the number of option selections in the saved button.	
11976	Invalid Data	You must specify either option quantity or option quantity delta values with a valid integer value.	
11977	Invalid Data	An option quantity or option quantity delta value must not be specified when TrackInv is 0.	
11978	Invalid Argument	Item alert must be specified as a positive integer.	

Error Code	Short Message	Long Message	Correcting This Error...
11979	Invalid Argument	Item alert must not be specified when TrackInv is 0.	
11980	Invalid Data	The number of option alert values specified is greater than the number of option selections in the saved button.	
11981	Invalid Argument	Option alert values must be specified as a positive integer.	
11982	Invalid Argument	Option alert values cannot be specified when TrackInv is 0.	
11983	Invalid Argument	Item cost value must be specified when tracking profit & loss by item.	
11984	Invalid Argument	The item cost value specified is invalid.	
11985	Invalid Argument	An item cost value cannot be specified when TrackPnl is 0.	
11986	Invalid Data	The number of option cost values specified is greater than the number of option selections in the saved button.	
11987	Invalid Argument	Option cost values must be specified when tracking profit & loss by option.	
11988	Invalid Argument	An option cost value specified is invalid.	
11989	Invalid Argument	An option cost value cannot be specified when TrackPnl is 0.	
11990	Invalid Argument	The sold out URL specified is invalid.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

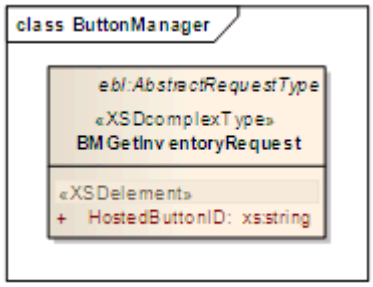
BMGetInventory API Operation

Use the `BMGetInventory` API operation to determine the inventory levels and other inventory-related information for a button and menu items associated with the button. Typically, you call `BMGetInventory` to obtain field values before calling `BMSetInventory` to change the inventory levels.

- BMGetInventory Request
- BMGetInventory Response
- BMGetInventory Errors

BMGetInventory Request

The hosted button ID identifies the button whose inventory you want to track.

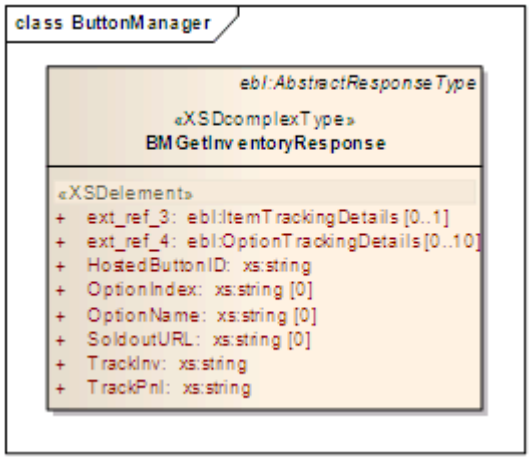


BMGetInventory Request Fields

Field	Description
`HostedButtonID`	`xs:string` *(Required)* The ID of the hosted button whose inventory information you want to obtain.

BMGetInventory Response

The response fields contain inventory information related to the button.



BMGetInventory Response Fields

Field	Description
`HostedButtonID`	`xs:string` The ID of the hosted button whose inventory you want to set.

Field	Description
TrackInv	xs:string Whether to track inventory levels associated with the button. It is one of the following values: • 0 - do not track inventory • 1 - track inventory
TrackPnl	xs:string Whether to track the gross profit associated with inventory changes. It is one of the following values: • 0 - do not track the gross profit • 1 - track the gross profit **NOTE:** The gross profit is calculated as the price of the item less its cost, multiplied by the change in the inventory level since the last call to BMSetInventory.
—	ebl:ItemTrackingDetails Item tracking details for the button
OptionIndex	xs:string Option index, which identifies the button. Option index 0 is the menu that contains the price if one exists; otherwise, it is the first menu without a price. Character length and limitations: 1 single-byte alphanumeric character
—	ebl:OptionTrackingDetails Option tracking details for menu items associated with the button
SoldoutURL	xs:string The URL to which the buyer's browser is redirected when the inventory drops to 0 **NOTE:** A value in this field also prevents a sale when the inventory drops to 0; otherwise, sales can continue even when inventory is unavailable. Character length and limitations: 127 single-byte alphanumeric characters

Item Tracking Details Fields

ItemNumber	xs:string The ID for an item associated with this button
ItemQty	xs:string The current inventory level of the item associated with this button
ItemQtyDelta	xs:string Not used
ItemAlert	xs:string The quantity of the item associated with this button below which PayPal sends you an email notification

`ItemCost`	`xs:string` The cost of the item associated with this button

Option Tracking Details Fields

`OptionNumber`	`xs:string` The menu item's ID for an option in a dropdown menu
`OptionQty`	`xs:string` The current inventory level of the option associated with this menu item
`OptionSelect`	`xs:string` The menu item's name in a dropdown menu
`OptionQtyDelta`	`xs:string` Not used
`OptionAlert`	`xs:string` The quantity of the option associated with this menu item below which PayPal sends you an email notification
`OptionCost`	`xs:string` The cost of the option associated with this menu item

BMGetInventory Errors

Error Code	Short Message	Long Message	Correcting This Error...
10001	Internal Error	Internal Error	
11950	Invalid Data	A hosted button ID must be specified.	
11951	Invalid Argument	The hosted button ID specified is invalid.	
11953	Invalid Data	You can only track inventory and profit & loss for buy now, cart or subscription buttons.	
11991	Invalid Data	The hosted button id specified does not have any inventory or cost associated with it.	
11992	Invalid Argument	You do not have permissions to access this button. Please check the hosted button ID and try again.	

A HTML Variables for Website Payments Standard

This appendix provides reference information for all HTML variables supported for use with Buy Now, Donation, Subscribe, Add to Cart, and View Cart buttons, as well as HTML variables supported the Cart Upload command.

Read the following topics to learn about the kinds of HTML variables that you can use:

- "Technical HTML Variables" on page 49
- "HTML Variables for Individual Items" on page 50
- "HTML Variables for Payment Transactions" on page 56
- "HTML Variables for Shopping Carts" on page 58
- "HTML Variables for Subscribe Buttons" on page 60
- "HTML Variables for Displaying PayPal Checkout Pages" on page 63
- "HTML Variables for Prepopulating PayPal Checkout Pages" on page 66

Technical HTML Variables

Technical HTML variables control how PayPal responds technically when people click Buy Now, Donation, Subscribe, Add to Cart, and View Cart buttons or when third party or custom carts initiate payment processing with the Cart Upload command. They also control how your buttons interact with special PayPal features.

Allowable Values for the cmd HTML Variable

Value of cmd	Description
`_xclick`	The button that the person clicked was a Buy Now button.
`_donations`	The button that the person clicked was a Donate button.
`_xclick-subscriptions`	The button that the person clicked was a Subscribe button.
`_oe-gift-certificate`	The button that the person clicked was a Buy Gift Certificate button.
`_cart`	For shopping cart purchases; these additional variables specify the kind of shopping cart button that the person clicked: • `add` – Add to Cart buttons for the PayPal Shopping Cart • `display` – View Cart buttons for the PayPal Shopping Cart • `upload` – The Cart Upload command for third party carts
`_s-xclick`	The button that the person clicked was protected from tampering by using encryption, or the button was saved in the merchant's PayPal account. PayPal determines which kind of button was clicked by decoding the encrypted code or by looking up the saved button in the merchant's account.

HTML Variables for Special PayPal Features

Name	Required or Optional	Description	Character Length
`notify_url`	Optional	The URL to which PayPal posts information about the transaction, in the form of Instant Payment Notification messages.	255
`hosted_button_id`	Required for buttons that have been saved in PayPal accounts; otherwise, not allowed.	The identifier of a button that was saved in a merchant's PayPal account. Allowable values are assigned by PayPal when payments buttons are first created and saved merchants' PayPal accounts. **NOTE:** A merchant's PayPal account can have a maximum of 1,000 saved payment buttons.	See description.

HTML Variables for Individual Items

HTML variables for individual items specify information about a product or service for Buy Now and Add to Cart buttons, or they specify information about a contribution for Donate buttons.

HTML Variables for Individual Items

Name	Required or Optional	Description	Character Length
`amount`	See description.	The price or amount of the product, service, or contribution, not including shipping, handling, or tax. If omitted from Buy Now or Donate buttons, payers enter their own amount at the time of payment. • Required for Add to Cart buttons • Optional for Buy Now and Donate buttons • Not used with Subscribe or Buy Gift Certificate buttons	
`discount_amount`	Optional	Discount amount associated with an item. It must be less than the selling price of the item. If you specify discount_amount and discount_amount2 is not defined, then this flat amount is applied regardless of the quantity of items purchased. Valid only for Buy Now and Add to Cart buttons.	
`discount_amount 2`	Optional	Discount amount associated with each additional quantity of the item. It must be equal to or less than the selling price of the item. A `discount_amount` must also be specified as greater than or equal to 0 for `discount_amount2` to take effect. Valid only for Buy Now and Add to Cart buttons.	
`discount_rate`	Optional	Discount rate (percentage) associated with an item. It must be set to a value less than 100. If you do not set `discount_rate2`, the value in `discount_rate` applies only to the first item regardless of the quantity of items purchased. Valid only for Buy Now and Add to Cart buttons.	
`discount_rate2`	Optional	Discount rate (percentage) associated with each additional quantity of the item. It must be equal to or less 100. A `discount_rate` must also be specified as greater than or equal to 0 for `discount_rate2` to take effect. Valid only for Buy Now and Add to Cart buttons.	
`discount_num`	Optional	Number of additional quantities of the item to which the discount applies. Applicable when you use `discount_amount2` or discount_rate2. Use this variable to specify an upper limit on the number of discounted items. Valid only for Buy Now and Add to Cart buttons.	

Name	Required or Optional	Description	Character Length
item_name	See description.	Description of item. If omitted, payers enter their own name at the time of payment. • Optional for Buy Now, Donate, Subscribe and Add to Cart buttons • Not used with Buy Gift Certificate buttons	127
item_number	Optional	Pass-through variable for you to track product or service purchased or the contribution made. The value you specify passed back to you upon payment completion.	127
quantity	Optional	Number of items. If profile-based shipping rates are configured with a basis of quantity, the sum of quantity values is used to calculate the shipping charges for the transaction. PayPal appends a sequence number to uniquely identify the item in the PayPal Shopping Cart (e.g., quantity1, quantity2). **NOTE:** The value for quantity must be a positive integer. Null, zero, or negative numbers are not allowed.	
shipping	Optional	The cost of shipping this item. If you specify shipping and shipping2 is not defined, this flat amount is charged regardless of the quantity of items purchased. This use of the shipping variable is valid only for Buy Now and Add to Cart buttons. Default – If profile-based shipping rates are configured, buyers are charged an amount according to the shipping methods they choose.	
shipping2	Optional	The cost of shipping each additional unit of this item. If omitted and profile-based shipping rates are configured, buyers are charged an amount according to the shipping methods they choose. Valid only for Buy Now and Add to Cart buttons.	
tax	Optional	Transaction-based tax override variable. Set this to a flat tax amount to apply to the transaction regardless of the buyer's location. This value overrides any tax settings set in your account profile. Valid only for Buy Now and Add to Cart buttons. Default – Profile tax settings, if any, apply.	
tax_rate	Optional	Transaction-based tax override variable. Set this to a percentage that will be applied to amount multiplied the quantity selected during checkout. This value overrides any tax settings set in your account profile. Allowable values are numbers 0.001 through 100. Valid only for Buy Now and Add to Cart buttons. Default – Profile tax settings, if any, apply.	6

Name	Required or Optional	Description	Character Length
undefined_ quantity	Optional	1 – allows buyers to specify the quantity. • Optional for Buy Now buttons • Not used with other buttons	1
weight	Optional	Weight of items. If profile-based shipping rates are configured with a basis of weight, the sum of weight values is used to calculate the shipping charges for the transaction.	
weight_unit	Optional	The unit of measure if weight is specified. Allowable values: • lbs • kgs The defaults is lbs.	
on0	Optional	First option field name and label. The os0 variable contains the corresponding value for this option field. For example, if on0 is size, os0 could be large. • Optional for Buy Now, Subscribe, and Add to Cart buttons • Not used with Donate or Buy Gift Certificate buttons	64
on1	Optional	Second option field name and label. The os1 variable contains the corresponding value for this option field. For example, if on1 is color then os1 could be blue. You can specify a maximum of 7option field names (6 with Subscribe buttons) by incrementing the option name index (on0 through on6). • Optional for Buy Now, Subscribe, and Add to Cart buttons • Not used with Donate or Buy Gift Certificate buttons	64

Name	Required or Optional	Description	Character Length
os0	Optional	Option selection of the buyer for the first option field, on0. If the option field is a dropdown menu or a set of radio buttons, each allowable value should be no more than 64 characters. If buyers enter this value in a text field, there is a 200-character limit. **NOTE:** The option field on0 must also be defined. For example, it could be size. For priced options, include the price and currency symbol in the text of the option selections, as the following sample code shows: `<option value="small">small - $10.00</option>` Add a corresponding option_select0 and option_amount0 variable for each priced option. Priced options are supported only for Buy Now and Add to Cart buttons. Only one dropdown menu option selection can have priced options. • Optional for Buy Now, Subscribe, and Add to Cart buttons • Not used with Donate or Buy Gift Certificate buttons	64 or 200 See description.
os1	Optional	Option selection of the buyer for the second option field, on1. If the option field is a dropdown menu or a set of radio buttons, each allowable value should be no more than 64 characters. If buyers enter this value in a text field, there is a 200-character limit. You can specify a maximum of 7 option selections (6 with Subscribe buttons) by incrementing the option selection index (os0 through os6). You can implement up to 5 option selections as dropdown menus and up to 2 option selections as test boxes. **NOTE:** A corresponding option field (on0 through on6) must defined. • Optional for Buy Now, Subscribe, and Add to Cart buttons • Not used with Donate or Buy Gift Certificate buttons	64 or 200 See description.
option_index	See description.	The cardinal number of the option field, on0 through on9, that has product options with different prices for each option. You must include option_index if the option field with prices is not on0. • Optional for Buy Now and Add to Cart buttons • Not used with Donate, Subscribe, or Buy Gift Certificate buttons Default – 0	

Name	Required or Optional	Description	Character Length

option_select0	Optional	For priced options, the value of the first option selection of the on0 dropdown menu. The values must match exactly, as the next sample code shows:
		
		`<option value="small">small - $10.00</option>`
		`...`
		`<input type="hidden" name="option_select0" value="small">`
		• Optional for Buy Now and Add to Cart buttons
		• Not used with Donate, Subscribe, or Buy Gift Certificate buttons
			64

option_amount0	Optional	For priced options, the amount that you want to charge for the first option selection of the on0 dropdown menu. Use only numeric values; the currency is taken from the currency_code variable. For example:
		
		`<option value="small">small - $10.00...`
		`<input type="hidden" name="option_amount0"</option> value="10.00">`
		• Optional for Buy Now and Add to Cart buttons
		• Not used with Donate, Subscribe, or Buy Gift Certificate buttons
			64

option_select1	Optional	For priced options, the value of the second option selection of the on0 dropdown menu. For example:
		
		`...`
		`<option value="medium">small - $10.00</option>...`
		`<input type="hidden" name="option_select" value="medium">`
		You can specify a maximum of ten option selections by incrementing the option selection index (option_select0 through option_select9).
		NOTE: A corresponding option selection in os0 must also be set.
		• Optional for Buy Now and Add to Cart buttons
		• Not used with Donate, Subscribe, or Buy Gift Certificate buttons
			64

Name	Required or Optional	Description	Character Length
option_amount1	Optional	For priced options, the amount that you want to charge for the second option selection of the on0 dropdown menu. For example: ... <option value="small">medium - $**15.00**</option> ... <input type="hidden" name="option_amount1" value="**15.00**"> You can specify a maximum of ten option amounts by incrementing the option amount index (option_amount0 through option_amount9). **NOTE:** A corresponding option selection in os0 must also be set. • Optional for Buy Now and Add to Cart buttons • Not used with Donate, Subscribe, or Buy Gift Certificate buttons	64

HTML Variables for Payment Transactions

HTML variables for payment transactions provide information about entire transactions, regardless of the individual items involved with the payment. You can use these variables with Add to Cart buttons and the Cart Upload command.

HTML Variables for Payment Transactions

Name	Required or Optional	Description	Character Length
address_override	Optional	1 – The address specified in prepopulation variables overrides the PayPal member's stored address. The payer is shown the passed-in address but cannot edit it. No address is shown if the address is not valid, such as missing required fields like country, or is not included at all.	1
currency_code	Optional	The currency of the payment. The default is USD.	3
custom	Optional	Passthrough variable never presented to the payer. Default – No variable is passed back to you.	256
handling	Optional	Handling charges. This is not quantity-specific. The same handling cost applies, regardless of the number of items on the order. Default – No handling charges are included.	
invoice	Optional	Passthrough variable you can use to identify your invoice number for this purchase. Default – No variable is passed back to you.	127
shipping	Optional	The cost of shipping the entire order contained in third-party shopping carts. This use of the shipping variable is valid only for the Cart Upload command. Default – If profile-based shipping rates are configured, buyers are charged an amount according to the shipping methods they choose.	
tax_cart	Optional	Cart-wide tax, overriding any individual item tax_*x* value	
weight_cart	Optional	If profile-based shipping rates are configured with a basis of weight, PayPal uses this value to calculate the shipping charges for the transaction. This value overrides the weight values of individual items.	
weight_unit	Optional	The unit of measure if weight_cart is specified. Allowable values: • lbs • kgs The default value is lbs.	

HTML Variables for Shopping Carts

HTML variables for shopping carts can be used with Add to Cart buttons, as well as with third party shopping carts or custom carts that initiate payment processing with the Cart Upload command.

HTMLVariables for Shopping Carts

Name	Required or Optional	Description	Character Length
`add`	See description	Add an item to the PayPal Shopping Cart. This variable must be set as follows: `add="1"` The alternative is the `display="1"` variable, which displays the contents of the PayPal Shopping Cart to the buyer. If both `add` and `display` are specified, `display` takes precedence.	1
`amount`	Required	Price of the item or the total price of all items in the shopping cart.	
`business`	Required	Your PayPal ID or an email address associated with your PayPal account. Email addresses must be confirmed.	
`discount_amount_cart`	Optional	Single discount amount to be charged cart-wide. It must be less than the selling price of all items combined in the cart. This variable overrides any individual item `discount_amount_`*x* values, if present. Applies only to the Cart Upload command.	
`discount_amount_`*x*	Optional	The discount amount associated with item *x*. It must be less than the selling price of the associated item. This amount is added with any other item discounts in the cart. Applies only to the Cart Upload command.	
`discount_rate_cart`	Optional	Single discount rate (percentage) to be charged cart-wide. It must be set to a value less than 100. The variable overrides any individual item `discount_rate_`*x* values, if present. Applies only to the Cart Upload command.	
`discount_rate_`*x*	Optional	The discount rate associated with item *x*. It must be set to a value less than 100. The variable takes into account all quantities of item *x*. Applies only to the Cart Upload command.	
`display`	See description.	Display the contents of the PayPal Shopping Cart to the buyer. This variable must be set as follows: `display="1"` The alternative is the `add="1"` variable, which adds an item to the PayPal Shopping Cart. If both `add` and `display` are specified, `display` takes precedence.	1

Name	Required or Optional	Description	Character Length
`handling_ cart`	Optional	Single handling fee to be charged cart-wide. If `handling_cart` is used in multiple **Add to Cart** buttons, the `handling_cart` value of the first item is used.	
`item_name`	Required	Name of the item or a name for the entire Shopping Cart	
`paymentaction`	Optional	Indicates whether the transaction is payment on a final sale or an authorization for a final sale, to be captured later. Allowable values: • sale • authorization • order The default value is `sale`. Set the value to `authorization` to place a hold on the PayPal account for the authorized amount. Set the value to `order` to authorize the transaction without placing a hold on the PayPal account. **IMPORTANT:** If you set `paymentaction` to `order`, you must use the Authorization & Capture API to authorize and capture the transaction payments. The merchant tools on the PayPal websitel let you capture payments only for authorizations, not for orders.	
`shopping_url`	Optional	The URL of the page on the merchant website that buyers return to when they click the **Continue Shopping** button on the PayPal Shopping Cart page.	
`upload`	See description	Upload the contents of a third party shopping cart or a custom shopping cart. This variable must be set as follows: `upload="1"` The alternatives are the `add="1"` variable and the `display="1"` variable, which are used with the PayPal Shopping Cart.	1

HTML Variables for Subscribe Buttons

HTML variables for Subscribe buttons set the terms of subscriptions and their recurring payments.

HTML Variables for Subscribe Buttons

Name	Required or Optional	Description	Character Length
business	Required	Your PayPal ID or an email address associated with your PayPal account. Email addresses must be confirmed.	
item_name	Optional	Description of item being sold (maximum 127 characters). If you are collecting aggregate payments, this can include a summary of all items purchased, tracking numbers, or generic terms such as "subscription." If omitted, customer will see a field in which they have the option of entering an Item Name	
currency_code	Optional	The currency of prices for trial periods and the subscription. The default is USD.	3
a1	Optional	Trial period 1 price. For a free trial period, specify 0.	
p1	See description.	Trial period 1 duration. Required if you specify a1. Specify an integer value in the allowable range for the units of duration that you specify with t1.	2
t1	See description.	Trial period 1 units of duration. Required if you specify a1. Allowable values: • D – for days; allowable range for p1 is 1 to 90 • W – for weeks; allowable range for p1 is 1 to 52 • M – for months; allowable range for p1 is 1 to 24 • Y – for years; allowable range for p1 is 1 to 5	1
a2	Optional	Trial period 2 price. Can be specified only if you also specify a1.	
p2	See description.	Trial period 2 duration. Required if you specify a2. Specify an integer value in the allowable range for the units of duration that you specify with t2.	2
t2	See description.	Trial period 2 units of duration. Allowable values: • D – for days; allowable range for p2 is 1 to 90 • W – for weeks; allowable range for p2 is 1 to 52 • M – for months; allowable range for p2 is 1 to 24 • Y – for years; allowable range for p2 is 1 to 5	1
a3	Required	Regular subscription price.	
p3	Required	Subscription duration. Specify an integer value in the allowable range for the units of duration that you specify with t3.	2
t3	Required	Regular subscription units of duration. Allowable values: • D – for days; allowable range for p3 is 1 to 90 • W – for weeks; allowable range for p3 is 1 to 52 • M – for months; allowable range for p3 is 1 to 24 • Y – for years; allowable range for p3 is 1 to 5	1

Name	Required or Optional	Description	Character Length
`src`	Optional	Recurring payments. Subscription payments recur unless subscribers cancel their subscriptions before the end of the current billing cycle or you limit the number of times that payments recur with the value that you specify for `srt`. Allowable values: • 0 – subscription payments do not recur • 1 – subscription payments recur The default is 0.	1
`srt`	Optional	Recurring times. Number of times that subscription payments recur. Specify an integer above 1. Valid only if you specify `src="1"`.	1
`sra`	Optional	Reattempt on failure. If a recurring payment fails, PayPal attempts to collect the payment two more times before canceling the subscription. Allowable values: • 0 – do not reattempt failed recurring payments • 1 – reattempt failed recurring payments before canceling The default is 0.	1
`no_note`	Required	Do not prompt payers to include a note with their payments. Allowable values for Subscribe buttons: • 1 – hide the text box and the prompt For Subscribe buttons, always include `no_note` and set it to `1`.	1
`custom`	Optional	User-defined field which will be passed through the system and returned in your merchant payment notification email. This field will not be shown to your subscribers.	255
`invoice`	Optional	User-defined field which must be unique with each subscription. The invoice number will be shown to subscribers with the other details of their transactions	127
`modify`	Optional	Modification behavior. Allowable values: • `0` – allows subscribers to only create new subscriptions • `1` – allows subscribers to modify their current subscriptions or sign up for new ones • `2` – allows subscribers to only modify their current subscriptions The default value is `0`.	1
`usr_manage`	Optional	Set to `1` to have PayPal generate usernames and initial passwords for subscribers.	1

HTML Variables for Displaying PayPal Checkout Pages

HTML variables for displaying PayPal checkout pages control how the pages appear and function.

HTML Variables for Displaying PayPal Checkout Pages

Name	Required or Optional	Description	Character Length
page_style	Optional	The custom payment page style for checkout pages. Allowable values: • paypal – use the PayPal page style • primary – use the page style that you marked as primary in your account profile • *page_style_name* – use the custom payment page style from your account profile that has the specified name The default is primary if you added a custom payment page style to your account profile. Otherwise, the default is paypal.	30
image_url	Optional	The URL of the 150x50-pixel image displayed as your logo in the upper left corner of the PayPal checkout pages. Default – Your business name, if you have a Business account, or your email address, if you have Premier or Personal account.	1,024
cpp_header_image	Optional	The image at the top left of the checkout page. The image's maximum size is 750 pixels wide by 90 pixels high. PayPal recommends that you provide an image that is stored only on a secure (https) server.	No limit
cpp_headerback_color	Optional	The background color for the header of the checkout page. Valid value is case-insensitive six-character HTML hexadecimal color code in ASCII.	6
cpp_headerborder_color	Optional	The border color around the header of the checkout page. The border is a 2-pixel perimeter around the header space, which has a maximum size of 750 pixels wide by 90 pixels high. Valid value is case-insensitive six-character HTML hexadecimal color code in ASCII.	6
cpp_payflow_color	Optional	The background color for the checkout page below the header. Valid value is case-insensitive six-character HTML hexadecimal color code in ASCII. **NOTE:** Background colors that conflict with PayPal's error messages are not allowed; in these cases, the default color is white.	6
cs	Optional	The background color of the checkout page. Allowable values: • 0 – background color is white • 1 – background color is black The default is 0.	1

Name	Required or Optional	Description	Character Length
`lc`	Optional	The language of the login or sign-up page that subscribers see when they click the Subscribe button. If unspecified, the language is determined by a PayPal cookie in the subscriber's browser. If there is no PayPal cookie, the default language is U.S. English. For allowable values, see .	2
`no_note`	Optional	Do not prompt payers to include a note with their payments. Allowable values: • 0 – provide a text box and prompt for the note • 1 – hide the text box and the prompt The default is 0.	1
`cn`	Optional	Label that appears above the note field. This value is not saved and will not appear in any of your notifications. If omitted, the default label above the note field is "Add special instructions to merchant." The `cn` variable is not valid with Subscribe buttons or if you include `no_note="1"`.	90
`no_shipping`	Optional	Do not prompt payers for shipping address. Allowable values: • `0` – prompt for an address, but do not require one • `1` – do not prompt for an address • `2` – prompt for an address, and require one The default is `0`.	1
`return`	Optional	The URL to which the payer's browser is redirected after completing the payment; for example, a URL on your site that displays a "Thank you for your payment" page. Default – The browser is redirected to a PayPal web page.	1,024
`rm`	Optional	Return method. The `FORM METHOD` used to send data to the URL specified by the `return` variable after payment completion. Allowable values: • `0` – all shopping cart transactions use the `GET` method • `1` – the payer's browser is redirected to the return URL by the `GET` method, and no transaction variables are sent • `2` – the payer's browser is redirected to the return URL by the `POST` method, and all transaction variables are also posted The default is `0`. **NOTE:** The `rm` variable takes effect only if the `return` variable is also set.	1

Name	Required or Optional	Description	Character Length
cbt	Optional	Sets the text for the **Return to Merchant** button on the PayPal Payment Complete page. For Business accounts, the return button displays your business name in place of the word "Merchant" by default. For Donate buttons, the text reads "Return to donations coordinator" by default. **NOTE:** The return variable must also be set.	60
cancel_return	Optional	A URL to which the payer's browser is redirected if payment is cancelled; for example, a URL on your website that displays a "Payment Canceled" page. Default – The browser is redirected to a PayPal web page.	1,024

HTML Variables for Prepopulating PayPal Checkout Pages

HTML variables for prepopulating PayPal checkout pages let you specify information about the payer.

HTML Variables for Prepopulating Checkout Pages With Payer Information

Name	Required or Optional	Description	Character Length
address1	Optional	Street (1 of 2 fields)	100
address2	Optional	Street (2 of 2 fields)	100
city	Optional	City	40
country	Optional	Sets shipping and billing country.	2
first_name	Optional	First name	32
last_name	Optional	Last name	64
lc	Optional	Sets the payer's language for the billing information/log-in page only. The default is US.	2
charset	Optional	Sets the character encoding for the billing information/log-in page, for the information you send to PayPal in your HTML button code, and for the information that PayPal returns to you as a result of checkout processes initiated by the payment button. The default is based on the character encoding settings in your account profile.	21
night_phone_a	Optional	The area code for U.S. phone numbers, or the country code for phone numbers outside the U.S. This will prepopulate the payer's home phone number.	See description.

Name	Required or Optional	Description	Character Length
night_phone_b	Optional	The three-digit prefix for U.S. phone numbers, or the entire phone number for phone numbers outside the U.S., excluding country code. This will prepopulate the payer's home phone number.	See description.
night_phone_c	Optional	The four-digit phone number for U.S. phone numbers. This will prepopulate the payer's home phone number.	See description.
state	Optional	State; use Official U.S. Postal Service Abbreviations.	2
zip	Optional	Postal code	32